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Claims:

Amend claims 1-54 as follows:

Claim 1 (currently amended): An ammonium- and urea-free solid-chemical composition for the anaerobic bioremediation of chemical contaminants in the environment coupled to the biological process of denitrification, which provides a source of inorganic nutrients comprising:

- a. a soluble source of inorganic nitrate salts ~~nutrients~~ comprising up to from about 25.0% to 99.5% by weight of the composition, being selected from one or more selected from of the group consisting of sodium nitrate, potassium nitrate, sodium-potassium nitrate and calcium nitrate ~~water-soluble forms of inorganic nitrogen, inorganic phosphorus, and inorganic potassium;~~ and
- b. ~~a geochemical binder system~~ a source of inorganic nutrient phosphorus comprising salts of phosphoric acid from about 0.5% to 13% by weight of the composition.

Claims 2-4 (canceled)

Claim 5 (original): The solid-chemical composition of Claim 1, whereby said salts of phosphoric acid are selected from one or more of the group consisting of sodium hexametaphosphate, sodium trimetaphosphate, potassium hexametaphosphate, and potassium tetrametaphosphate.

Claims 6-8 (canceled)

Claim 9 (currently amended): The solid-chemical composition of Claim 1, further comprising a source of micronutrients selected from one or more of the group of elements consisting of

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potassium, sulfur, calcium, magnesium, boron, copper, iron, manganese, molybdenum and zinc.

Claim 10 (currently amended): The solid-chemical composition of Claim 1, further comprising a source of micronutrients, where said source of micronutrients being ~~is further selected from~~ one or more selected from of the group consisting of calcium sulfate, calcium chloride, calcitic lime, dolomite, magnesium sulfate, potassium sulfate, potassium-magnesium sulfate, ~~ammonium thiosulfate, ammonium sulfate~~, borax, boric acid, sodium pentaborate, sodium tetraborate, cupric chloride, copper sulfate, ferrous sulfate, manganese sulfate, ~~ammonium molybdate~~, sodium molybdate, zinc oxide and zinc sulfate.

Claim 11 (original): The solid-chemical composition of Claim 1, further comprising a chelating agent.

Claim 12 (currently amended): The solid-chemical composition of Claim 11, further comprising a chelating agent from about 0.01% to 3% by weight of the composition, whereby said chelating agent is ~~selected from~~ one or more selected from of the group consisting of citric acid, sodium citrate, potassium citrate, humic acid, fulvic acid, nitrilotriacetic acid (NTA), and ethylenediaminetetraacetic acid (EDTA).

Claim 13 (canceled)

Claim 14 (original): The solid-chemical composition of Claim 1, further comprising a disintegrant.

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Claim 15 (currently amended): The solid-chemical composition of Claim 14, further comprising a disintegrant from about 0.05% to 5% by weight of the composition, being one or more selected from ~~whereby said disintegrant is selected from one or more of the group~~ consisting of sodium bicarbonate and sodium bentonite.

Claim 16 (canceled)

Claim 17 (currently amended): The solid-chemical composition of Claims 1, 5, 9, 10, 11, 12, 14, or 15 prepared in the forms of granules, briquettes, pellets, tablets, spikes, or other formed shapes.

Claim 18 (currently amended): The solid-chemical composition of Claims 1, 5, 9, 10, 11, 12, 14, or 15 produced in a granular form by the method of high-shear granulation without the use of anhydrous ammonia and one or more chemicals selected from the group consisting of sulfuric acid and phosphoric acid.

Claims 19-52 (canceled)

Claim 53 (canceled)

Claim 54 (canceled)